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Electron transport in the tip of cone targets in high intensity laser-plasma interaction NATHALIE LE GALLOUDEC, University of Nevada Reno, EMMANUEL D'HUMIERES, CPhT, Ecole Polytechnique, France, BYOUNG-ICK CHO, University of Texas, Austin, JENS OSTERHOLZ, University of Duesseldorf, Germany, YASUHIKO SENTOKU, University of Nevada Reno, TODD DITMIRE, University of Texas, Austin — Cones targets of specific parameters were irradiated with the Thor laser (0.5J, 40fs, 800nm, 7micron focal spot, 3.10^{19}W/cm^2) at UT Austin. These targets have been diagnosed with a focus on hot electron transport especially in the tip. The results show a 5micron diameter beam exiting the outside tip after about 60 micron propagation in the bulk material of the tip itself. Key elements of the interaction will be presented along with supporting simulations.

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